

Inside-Out Well

Description

The INEEL has developed a new technology that accommodates simultaneous gas sampling and groundwater sampling in the same borehole. By attaching the gas sampling tubing and ports on the exterior of the casing, the Inside-Out Well eliminates costly problems associated with conventional designs for combination groundwater and gas sampling wells.

Applications

- The Inside-Out Well can be used simultaneously for monitoring and remediation. The technology is currently being used to monitor volatile organic compounds. It can also be used for remediation applications including air extraction, air injection, groundwater pumping and injection of air below the water table (sparging).
- This technology is simple to construct, install, and operate.
- The well significantly lowers overall costs compared to installing separate boreholes for groundwater and vapor sampling.

Development Status

- The INEEL has patented the well design.
- Design feasibility has been proven at a low-level radioactive and hazardous waste storage facility at the INEEL.
- Licensees are being sought to commercialize the technology.

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See news about the Inside-Out Well



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